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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/815,515	03/31/2004	Fernand Labrie	P/1259-771	8218	
2002	7590 03/13/200 FABER GERB & SOF	EXAMINER			
1180 AVENUE	OF THE AMERICAS		BADIO, BARBARA P		
NEW YORK, NY 100368403		·	ART UNIT	PAPER NUMBER	
			1617		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MOI	NTHS	03/13/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No. Applicant(s)							
Office Action Summary		10/815,515		LABRIE ET AL.					
		Examiner		Art Unit					
			Barbara P. I		1617				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)	Responsive to communication(s) file	d on							
·			action is no	n-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	Claim(s) 1-12 is/are pending in the a	pplication.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠	5)⊠ Claim(s) <u>2</u> is/are allowed.								
6)⊠	S)⊠ Claim(s) <u>1 and 3-12</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)[Claim(s) are subject to restric	tion and/or	election rec	ıuirement.					
Applicati	on Papers								
9)[The specification is objected to by the	e Examiner	r.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)[11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119								
_	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachment(s)									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date									
	e of Draftsperson's Patent Drawing Review (Phation Disclosure Statement(s) (PTO/SB/08)	5	i) Notice of Informal Pa						
Paper No(s)/Mail Date <u>11/2004:07/2004</u> . 6) Other:									

Application/Control Number: 10/815,515

Art Unit: 1617

First Office Action on the Merits

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 6-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The court has held that adequate written description requires a precise definition, such as by structure, formula, chemical name or physical properties, "not a mere wish or plan for obtaining the claimed invention." *Eli Lilly*, 119, F.3d 1559, 1568 (Fed. Cir. 1997). The Federal Circuit has also adopted the standard set forth in the Patent and Trademark Office ("PTO") Guidelines for Examination of Patent Applications Under the 35 USC 112, 1st "Written Description" Requirement ("Guidelines"), 66 Fed. Reg. 1099 (Jan. 5, 2001), which state that the written description requirement can be met by "showing that an invention is complete by disclosure of sufficiently detailed, relevant identifying characteristics, "including, inter alia, "functional characteristics when coupled with a known or disclosed correlation between function and structure…". *Enzo Biochem, inc. v. Gen-Probe.*, 296 F.3d, 316, 1324-25 (Fed. Cir. 2002).

Application/Control Number: 10/815,515 Page 3

Art Unit: 1617

The present specification lacks sufficient descriptive support for the inhibitors as recited by the instant claims. For example, apart from EM1404, the present specification lacks correlation between structure and the phrase "inhibitor of type 5 17β-hydroxysteroid dehydrogenase" (see page 8, lines 21-23 of the present specification). Because the present specification lacks correlation between said functional characteristics and any structure(s), the skilled artisan would be unable to envision the compounds necessary for practice of the claimed invention. Therefore, the instant claims fail to comply with the written description requirement.

3. Claims 6-12 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the specific inhibitors set forth on pages 7-11, does not reasonably provide enablement for all inhibitors of the recited enzymes. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

The factors to be considered in determining whether a disclosure meets the enablement requirement of 35 USC 112, first paragraph, have been described in In re Wands, 8 USPQ2d 1400 (Fed. Cir. 1988). Among these factors are (1) the nature of the invention, (2) the breadth of the claims, (3) the state of the prior art, (4) the predictability or unpredictability of the art, (5) the amount of guidance or direction presented, (6) the presence or absence of working examples, (7) the relative skill in the art and (8) the quantity of experimentation necessary. When the above factors are

Application/Control Number: 10/815,515

Art Unit: 1617

taken into consideration, the examiner's position is that one skilled in the art could not perform the invention commensurate in scope with the instant claim without undue experimentation.

Page 4

The instant claims recite the utilization of inhibitors of various enzymes, for example, type 5 17 β -hydroxysteroid dehydrogenase and 5α -reductase. However, the present specification lacks structural identifying characteristics of each group of inhibitors. There is also no evidence that there is any correlation between said functional characteristics and any structure(s) apart from the specific compounds set forth in the present specification. Thus, in order to practice the claimed invention commensurate in scope with the instant claims, the skilled artisan would have to first determine the ability of every known compound to inhibit the various enzymes recited by the instant claims. Because the present specification lacks guidance as to compounds encompassed by the recited functional characteristics, for example, inhibitor of type 5 17β -hydroxysteroid dehydrogenase, the quantity of experimentation necessary to practice the claimed invention commensurate n scope with the instant claims would be undue.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Art Unit: 1617

5. Claims 1 and 3-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The instant claims are indefinite for the following reasons:

Claim 1 identifies but does not define R_{16a} , $R_{16\beta}$, R_{17a} and $R_{17\beta}$. Claim 1 also defines but does not identify R_{16a} , R_{16b} , R_{17a} and R_{17b} . Should R_{16a} , R_{16b} , R_{17a} and R_{17b} read R_{16a} , $R_{16\beta}$, R_{17a} and $R_{17\beta}$? Correction is required.

Claim 1 also recites "a moiety –C°CR". It is unclear what is intended by said moiety especially what is meant by "C°". The present specification set forth "a moiety – C=CR" (see page 3, line 5 of the present specification). Correction is required.

Claims 1 and 3 recite "a group transformed on the skin into hydroxyl". The present specification lacks definition of what is encompassed by said phrase and, thus, the metes and bound of the claimed invention is indefinite.

Claim 4 defines but does not identify $R16_{\alpha}$, $R16_{\beta}$ and $R17\alpha$ and, thus, the claim is indefinite

Claims 6-12 recites inhibitors of various enzymes but does not identify/define a structure associated with each and, thus, the claimed invention is indefinite.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/815,515 Page 6

Art Unit: 1617

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Morrow et al. (J. Med. Chem., 1966).

Morrow et al. teaches several 3-fluoroestra-1,3,5(10)-trienes including 3-fluoro- 17α -methylestra-1,3,5(10)-trien- 17β -ol and 3-fluoroestra-1,3,5(10)-trien-17-one and the effect of elimination of the 3-hydroxyl group of natural estrogens (see entire article, especially page 250, compounds III and VII). The compounds and compositions taught by the reference are encompassed by the instant claims.

Telephone Inquiry

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara P. Badio, Ph.D. whose telephone number is 571-272-0609. The examiner can normally be reached on M-F from 6:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/815,515

Art Unit: 1617

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Barbara P. Badio, Ph.D.

Primary Examiner
Art Unit 1617

BB

March 8, 2007